

PDR RID Report

Date Last Modified 4/25/95
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Organization
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Document

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RID ID	PDR	151
Review	CSMS	
Originator	Ref	
Priority	1	

Section

Page

Figure Table

Category Name Design-Segment-level

Actionee HAIS

Sub Category Getting to CDR

Subject Engineering Process to CDR

Description of Problem or Suggestion:

What level of design documentation needs to be produced by CDR - in terms of DDs, MIBs, display definitions, scripts, etc. What is the process by which they will be produced and reviewed? What metrics are appropriate to be provided?

Originator's Recommendation

GSFC Response by: desJardins

GSFC Response Date 4/25/95

An action item will be created to work with the SEL to clarify development schedule.

HAIS Response by: Forman

HAIS Schedule 2/10/95

HAIS R. E. Armstrong

HAIS Response Date 2/10/95

See RID #150 response with respect to the level of CDR design documentation. The process by which they will be produced, reviewed, and metrics assessed is now being further defined as discussed below.

The engineering process for the design production is now being planned by the CSMS development managers as part of the next "rolling wave" for the ECS performance measurement system (PMS), due in mid-March. This process involves analyzing and defining specific, measurable work packages composed of detailed activities. These activities involve prototyping, supporting COTS selections, developing detailed scenarios, and other detailed design products discussed above. Each activity is resource-loaded to define the level of effort.

The process for detailed design production and review is also being planned at higher levels on the project. The development of CSMS' DID 307/329 discussed above is providing the development managers with a planning template within which to plan their work packages. Work on this CDRL is also supporting revisions now being made to the ECS intermediate logic network (ILN) (a PERT/CPM tool). Other ILN refinements are also being made as a result of the recent PMS certification audit readiness assessment.

As part of the PDR Wrap-Up preparation, we are reevaluating our plans for CDR conduct. While better in some respects than the "big bang" SDR, the PDR "season" was deemed as less effective than hoped. Despite the introduction of review copies, pre-review workshops, and longer review sessions, the reviewers remained less than satisfied with the process and the ECS contractor team found there to be more effort than originally planned. We are now fleshing-out several alternatives for presentation at the PDR Wrap-Up session that account for items such as the need to:

- constrain formal CDR activities to no more than 2 months
- improve early information transfer to all reviewers
- accommodate a large set of reviewers with a myriad of perspectives (e.g., operations users, science users, DAAC managers, ESDIS managers) for operational scenario walk-thrus earlier in the process
- accommodate a small set of technical reviewers with specific interests (e.g., Network Team, IV&V, support contractors, ESDIS engineers) for detailed designs
- address the ECS internal reorganization that is combining SDPS and CSMS (detailed designs should be presented by function, not necessarily by segment)
- address FOS' potential combining of CDR-A and CDR-B (of concern due to the need to retain synchronization of the FOS and CSMS designs since FOS's CDR is presently scheduled prior to CSMS's).

Finally, CDR period metrics are currently being defined by the ECS Quality Office as is an internal ECS Project Instruction regarding the metrics process (QO-1-014). CSMS and other ECS organizations have already reviewed and provided comment on these items since its PDR. It is expected that these items will be in-place for the February or March reporting period.

PDR RID Report

regarding the metrics process (QO-1-014). CSMS and other ECS organizations have already reviewed and provided comment on these items since its PDR. It is expected that these items will be in-place for the February or March reporting period.

Status **Closed**

Date Closed **4/25/95**

Sponsor **desJardins**

***** **Attachment if any** *****
